

Exhibit 3

Affidavit of Robert A. Stern, Ph.D.

I, Robert A. Stern, Ph.D., am Professor of Neurology and Neurosurgery at Boston University School of Medicine (BUSM). I have been on the faculty at BUSM since 2004. Prior to that, I was Associate Professor of Psychiatry and Human Behavior at Brown Medical School in Providence, Rhode Island, where I had been on the faculty since 1993. During that time, I was Director of the Memory and Cognitive Assessment Program at Rhode Island Hospital. Prior to that, I had been Assistant Professor of Psychiatry at the University of North Carolina (UNC) School of Medicine at Chapel Hill, North Carolina, where I had been on the faculty since 1990. During that time, I was Director of the Neurobehavioral Assessment Laboratory as well as the Associate Director of the federally-funded Mental Health Clinical Research Center. I am fully trained and licensed as a Clinical Psychologist (Massachusetts License number 7238), with a specialty in Clinical Neuropsychology. I have been duly licensed as a Clinical Psychologist since 1990 and have been a Registrant of the National Register of Health Service Providers in Psychology since 1992. I received my Ph.D. in Clinical Psychology in 1988 from the University of Rhode Island (dissertation titled, “Mood Disorders following Stroke”), completed my pre-doctoral internship training in Clinical Neuropsychology at the Boston Veterans Administration Medical Center, and completed my post-doctoral fellowship research and clinical training in both Neuropsychology and Psychoneuroendocrinology at UNC School of Medicine. My complete Curriculum Vitae is provided as Ex. 1 and provides a full summary of my experiences and qualifications. However, I will provide a summary of pertinent information below.

I am a Fellow of both the American Neuropsychiatric Association and the National Academy of Neuropsychology. I am on several editorial boards of medical and scientific journals and I have been on several grant review committees for international, national (e.g., National Institutes of Health, NIH), and foundation funding agencies. I am a member of the medical and scientific advisory boards of the MA/NH Chapter of the Alzheimer’s Association, the National Grave’s Disease Foundation, and

Sports Legacy Institute, and am also a member of the Mackey White Traumatic Brain Injury Committee of the National Football League Players Association.

Throughout my 25 year career, I have taught medical students and young physicians (neurology residents, psychiatry residents, and geriatrics fellows) through courses and required training seminars in the areas of neurobehavioral mental status examination, brain-behavior relationships, assessment of dementia, the diagnosis and treatment of Alzheimer's disease and related disorders, chronic traumatic encephalopathy (CTE), and similar areas of their formal training. I have been a lecturer in, and a course director of, several continuing medical education (CME) courses for physicians, both locally and nationally. I have been an invited lecturer (and keynote lecturer) for numerous national and international medical and scientific meetings, speaking primarily in the area of Alzheimer's disease, CTE, and issues pertaining to the evaluation and assessment of the cognitive, mood, and behavioral aspects of neurodegenerative disease. I have also been the mentor for numerous undergraduate students, graduate students (PhD students, master's degree students, medical students, MD/PhD students), and post-doctoral fellows, and have been the primary mentor of several masters theses and Ph.D. dissertations.

One of my areas of specialization and expertise includes the assessment and evaluation of neurocognitive functioning. I have published extensively in this area and have also been the primary author of several widely used, standardized neuropsychological tests, including the 33 tests of memory, language, attention, executive functioning, and spatial skills that make up the *Neuropsychological Assessment Battery* (NAB). I recently gave invited lectures at the New York Academy of Sciences and for the Coalition Against Major Diseases in Washington, DC, providing guidance and education to members of the Federal Drug Administration, senior thought leaders in the pharmaceutical industry, and fellow scientists about neurocognitive assessment issues for Alzheimer's disease clinical trials.

I am a clinical neuroscientist with my research program focusing on the risk factors for, and the diagnosis and treatment of neurodegenerative diseases and other causes of cognitive, mood, and behavior change in aging. Currently, I am the Clinical Core Director of the Boston University (BU) Alzheimer's Disease Center (ADC), one

of 29 research centers across the country funded by the National Institute on Aging (NIA) of the National Institutes of Health (NIH). In this capacity, I oversee all clinical research (i.e., research conducted on living humans) pertaining to AD, including studies aimed at the early diagnosis of AD, genetics, and clinical trials of new medicines to prevent or treat AD. My other areas of currently NIH-funded research include the cognitive effects of chemotherapy in older breast cancer patients and the cognitive and mood effects of subclinical hypothyroidism in the elderly.

Since 2008, my primary area of research has been on the long-term consequences of repetitive brain trauma in athletes (see: McKee et al., 2009; Gavett et al., 2010; McKee et al., 2010; Daneshvar et al., 2011a and 2011b; Gavett et al., 2011a and 2011b; Stern et al., 2011; Baugh et al., 2012; Goldstein et al., 2012; McKee et al., 2013; Mez et al., 2013; Seichepine et al., 2013; Stern et al., 2013; Lin et al., in press; Robbins et al., in press). I was a co-founder of the BU Center for the Study of Traumatic Encephalopathy (CSTE) and oversee all clinical research in this area of research at BU. I have received R01 grant funding from NIH (the first grant ever funded by NIH for the study of CTE) to develop biomarkers for the *in vivo* detection and diagnosis of CTE. This project, called the Diagnosis and Evaluation of Traumatic Encephalopathy using Clinical Tests (DETECT) study, involves the examination of 100 former professional football players (selected based on positions played, their overall exposure to repetitive brain trauma using data from helmet sensors, and existing clinical symptoms) and 50 same-age non-contact sport elite athletes. All research participants (approximately 90 to date) undergo extensive brain scans, lumbar punctures (to measure proteins in cerebrospinal fluid), electrophysiological studies, blood tests (e.g., for genetic studies), and in-depth neurological, neuropsychological, and psychiatric evaluations. In addition, I have recently received Department of Defense funding (with my colleague, Dr. Martha Shenton) to examine a new Positron Emission Tomography (PET) ligand that is specific to the abnormal forms of tau protein found in CTE. I am also the principal investigator of a telephone- and web-based longitudinal study (Longitudinal Evaluation to Gather Evidence of Neurodegenerative Disease; LEGEND) of several hundred adult former and current athletes (currently ~600) across all sports and levels of play (including collegiate) to assess risk factors (including brain

trauma exposure, genetics, and lifestyle) and clinical course of CTE and other short-term and long-term consequences of repetitive brain trauma. I have conducted all of the retrospective clinical interviews with the next-of-kin of the deceased athletes (and others) in Dr. Ann McKee's CTE brain bank and have developed the first clinical diagnostic criteria for CTE, based, in part, on the information gathered from the post-mortem family interviews of over 75 neuropathologically confirmed cases of CTE. Our group of researchers at BU has been playing a central role nationally and internationally in the area of CTE and the long-term consequences of repetitive brain trauma, including concussions and subconcussive blows. I was the co-director of the first ever national scientific meeting on CTE and have been an invited speaker at the first two meetings held by NIH on this topic. I have published extensively in this area of research including several empirical papers in high impact peer-reviewed scientific journals. I am the invited editor of a special series on CTE and traumatic brain injury (TBI) for the journal, *Alzheimer's Research and Therapy*. I have been recently asked to provide testimony regarding this area to the US Senate Special Committee on Aging.

Based on the above experience, training, and expertise, I will now provide my opinion regarding the facts related to concussion. In this summary, I will opine that (1) former NCAA college football players who played at NCAA member schools are at increased risk for long-term neurocognitive, mood, and behavioral symptoms as a consequence of repetitive head impacts, including symptomatic concussions and asymptomatic subconcussive trauma; (2) former athletes who played football in the NCAA before 2004 are at the age now when they might be expected to exhibit these latent, long-term consequences and that they must now be formally evaluated and treated, if indicated; and (3) the NCAA and its leadership has known for two or more decades of the long-term risks associated with concussions and other brain trauma experienced by collegiate and other football players, and that medical intervention, brain trauma prevention strategies, and concussion management, may reduce the risk of subsequent brain disease and injury and related cognitive, mood, and behavioral impairment.

(1) Former NCAA college football players who played at NCAA member schools are at increased risk for long-term neurocognitive, mood, and behavioral symptoms as a consequence of repetitive brain trauma, including symptomatic concussions and asymptomatic subconcussive trauma.

Chronic traumatic encephalopathy (CTE) is a neurodegenerative disease characterized by the accumulation of hyperphosphorylated tau protein (p-tau) in neurons and astrocytes in a pattern that is unique from other tauopathies, including AD and frontotemporal lobar degeneration. The p-tau deposition initially occurs focally, as perivascular neurofibrillary tangles and neurites at the depths of the cerebral sulci. It then spreads to involve superficial layers of adjacent cortex, eventually resulting in widespread degeneration of the medial temporal lobes, diencephalon, and brainstem (McKee et al., 2009, 2013). Unlike AD there is a paucity of beta amyloid neuritic plaques. CTE has been found most often in professional athletes involved in contact sports (e.g., boxing, American football) who have been subjected to repetitive blows to the head resulting in concussion as well as asymptomatic, subconcussive trauma (Bailes et al., 2013; Baugh et al., 2012). However, neuropathologically-confirmed CTE has been reported in individuals as young as 17 and in athletes who only played football through college (McKee, et al., 2013).

All cases of neuropathologically-confirmed CTE reported to date have had a history of repetitive head impacts. Although head impacts appear to be a necessary variable for the initiation of the pathogenetic cascade that eventually leads to neurodegeneration, the history of head impacts is not a sufficient variable and additional risk factors (including genetic susceptibility markers) remain unknown. The key issue here, however, is that it has been known since the early 20th century that repetitive blows to the head earlier in life can lead to later life cognitive, mood, and behavior impairments.

In his seminal 1928 paper in the *Journal of the American Medical Association*, Martland used the term “punch drunk” to describe boxers suffering from symptoms he believed to be related to the repetitive blows they received in the ring. Since that time, various terms have been used to describe the clinical syndrome associated with

repetitive head impacts, predominantly in studies of boxers. In 1934, Parker published a paper in which he referred to the traumatic encephalopathy of pugilists. In 1937, Millspaugh first used the term dementia pugilistica (Millspaugh, 1937), a term still currently used by clinicians and researchers. Other terms coined through the decades include traumatic encephalitis (Ravina et al., 1937), psychopathic deterioration of pugilists (Courville, 1962), and traumatic boxer's encephalopathy (Mawdsley 1963). In 1937, Critchley first used the term, chronic progressive traumatic encephalopathy, though later modified it to chronic traumatic encephalopathy, or CTE, because some cases appeared to be stable and not progressive (Critchley, 1949, 1957, 1964).

In 2005, Omalu and colleagues described the first case of neuropathologically confirmed CTE in an American football player. Since that time, there have been several publications describing the neuropathological findings of CTE in former football players, including those who played only through the college level (McKee et al., 2009; McKee et al., 2013). In our studies of neuropathologically confirmed cases of CTE as well as in comprehensive reviews of the literature pertaining to dementia pugilistica and CTE (e.g., Victoroff, 2013), the delay in symptoms from the end of exposure to brain trauma (e.g., the end of football career) to the onset of symptoms is 15 years or more.

In addition to neuropathological findings of CTE, several studies have demonstrated cognitive, behavior, and/or mood changes in collegiate football players, as well as damage to the white matter of the brain exhibited on magnetic resonance imaging (MRI) scans using the specific technique called, diffusion tensor imaging (DTI) even after a single season, even in athletes without symptomatic concussions (e.g., McAllister et al., 2012; McAllister et al., 2014). These changes in functioning and brain structural integrity have also been found years following the end of play in college students. For example, Seichepine and colleagues (2013) examined a self-report measure of executive function in current and retired college and professional football players. Overall, football players reported more-frequent problems with executive function in everyday activities, when compared to published normative data for healthy individuals of the same age and representative of the U.S. population in regard to sex, race/ethnicity, education, and geographic region. Scores were elevated

overall, as well as on specific indices of the ability to control behavior and emotional responses and the ability to methodically solve problems through planning, organization, and sustaining effort. Football players 40 years of age and older reported more frequent problems with the ability to control behavior and emotional responses, even after the data were corrected for age. This finding provides additional evidence to suggest that problems with executive function in football players develop or worsen after 40 years of age.

(2) Former athletes who played football in the NCAA before 2004 are at the age now when they might be expected to exhibit these latent, long-term consequences and that they must now be formally evaluated and treated, if indicated.

As summarized above, research has found that the symptoms associated with CTE and other long-term consequences of concussions and other repetitive brain trauma may not begin to be exhibited for many years following the end of exposure to the head impacts, with the delay between exposure and symptom onset being 15 years or more, on average. This would loosely translate into an age of symptom onset of 37 years old or more. Those NCAA football players who graduated in 2003 would now, in 2014, be approximately 32 years old. This would indicate that symptoms of neurodegenerative disease, such as CTE, would be expected to become manifest over the next decade. Moreover, these former players could be expected to demonstrate these clinical features with greater frequency and with worsening severity over the next two to three decades. It is critical, therefore, that appropriate longitudinal clinical evaluation begin now and that this surveillance continue for many years to come. Although there are currently no available disease-modifying treatments for CTE, it is expected that over the next several years, appropriate treatments (e.g., anti-tau agents) will become available. In the meantime, it would be critical to provide symptomatic treatment for behavioral, mood, and cognitive disorders to these former athletes in order to reduce symptoms and improve overall functioning and quality of life.

(3) The NCAA and its leadership has known for two or more decades of the long-term risks associated with concussions and other brain trauma experienced by

collegiate and other football players, and that medical intervention, brain trauma prevention strategies, and concussion management, may reduce the risk of subsequent brain disease and injury and related cognitive, mood, and behavioral impairment.

Since the 1980's, there have been published reports regarding the adverse consequences of concussions and repeated concussions in collegiate football, as well as the need for concussion prevention and management. Beginning in the early 1980's, the University of Virginia Department of Neurosurgery conducted extensive studies on college football teams (Alves et al., 1987; Barth et al., 1989; Dick, 1994; Dick et al., 2007; Macciocchi et al., 1996) and suggested, along with others (e.g., Cantu 1986), cautionary procedures for returning athletes to games and practices following a concussion before symptoms had cleared. These return to play guidelines developed over time (e.g., Cantu, 1998) and, at the same time, the frequency of concussion in college sports was being studied and published (e.g., Dick 1994; Guskiewicz et al., 2000). Formal sideline measurements for concussion assessment were developed and validated because of the published knowledge that it was unsafe for a player to return to play prior to full recovery from a concussion (e.g., Ferarra et al., 2001; McCrea et al., 2003). And, as stated in more detail above, there had been numerous publications on the long-term consequences of repetitive brain trauma, including CTE, through much of the 20th century, starting with Martland (1928).

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diagnostic criteria. NeuroRehabilitation. 32:211-224.

I declare that the foregoing is true and accurate to the best of my knowledge.



Robert A. Stern, Ph.D.
Signed, January 31, 2014

Exhibit 1

Curriculum Vitae of Robert A. Stern, Ph.D.

Curriculum Vitae

Robert A. Stern, PhD

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ACADEMIC TRAINING:

1980 B.A. Wesleyan University, Middletown, CT
1984 M.A. University of Rhode Island, Kingston, RI, Psychology
1988 Ph.D. University of Rhode Island, Kingston, RI, Clinical Psychology (Clinical Neuropsychology Specialization);
1986-1987 Pre-Doctoral Internship in Clinical Neuropsychology; Mentor Edith Kaplan, Ph.D.; Department of Veterans Affairs Medical Center, Boston, MA

POSTDOCTORAL TRAINING:

1988-1990 Fellow in Neuropsychology and Psychoneuroendocrinology; Mentor Arthur J. Prange, Jr., MD; University of North Carolina School of Medicine, Chapel Hill, NC

ACADEMIC APPOINTMENTS:

1988-1990 Clinical Instructor of Psychiatry, University of North Carolina School of Medicine
1990-1993 Assistant Professor of Psychiatry, University of North Carolina School of Medicine
1991-1993 Clinical Assistant Professor of Speech and Hearing Sciences, University of North Carolina School of Medicine
1991 - 1993 Research Scientist, Brain and Development Research Center University of North Carolina School of Medicine
1993-1996 Assistant Professor of Psychiatry and Human Behavior, Brown Medical School
1993-1996 Assistant Professor of Clinical Neurosciences (Neurology), Brown Medical School
1994-2004 Adjunct Assistant Professor, Behavioral Neuroscience Program, Division of Graduate Medical Sciences, Boston University School of Medicine
1996-2003 Associate Professor of Psychiatry and Human Behavior, Brown Medical School
1996-2003 Associate Professor of Clinical Neurosciences (Neurology), Brown Medical School
1997-2004 Graduate Faculty Member, University of Rhode Island
2002-2003 Faculty Member, Brain Science Program, Brown University
2005-Present Faculty Member, Behavioral Neuroscience Program, Division of Graduate Medical Sciences, Boston University School of Medicine
2005-2011 Associate Professor of Neurology, Boston University School of Medicine
2011-Present Professor of Neurology and Neurosurgery, Boston University School of Medicine

HOSPITAL APPOINTMENTS:

1986-1988	Assistant in Neuropsychology, McLean Hospital, Belmont, MA
1990-1993	Clinical Neuropsychologist; Director, Adult Neuropsychology Laboratory; UNC Hospitals, Chapel Hill, NC
1993-2003	Clinical Neuropsychologist, Women's and Infants Hospital, Providence, RI
1993-2003	Clinical Neuropsychologist, Rhode Island Hospital, Providence, RI
1994-1995	Supervising Neuropsychologist, Slater Hospital, Cranston, RI
1994-2003	Director, Memory and Cognitive Assessment Program, Rhode Island Hospital, Providence, RI
1997-2003	Director, Neuropsychology Program; Rhode Island Hospital, Providence, RI
2004-Present	Clinical Neuropsychologist, Boston Medical Center (Boston University Neurology Associates), Boston, MA
2014-Present	Core Faculty Member, Boston Medical Center Injury Prevention Center

HONORS:

1980	Honors in Psychology, Wesleyan University, Middletown, CT
1980	Heidman Prize (for Community Service), Wesleyan University, Middletown, CT
1984	Psi Chi National Honor Society in Psychology
1988	Phi Kappa Phi National Honor Society
1997	Master of Arts <i>ad eundem</i> , Brown University, Providence, RI
1997	Independent Investigator Award, National Alliance for Research on Schizophrenia & Depression (NARSAD)
1999	Outstanding Teaching Award in Psychology, Brown University School of Medicine, Providence, RI
2001	Fellow, American Neuropsychiatric Association
2001	Fellow, National Academy of Neuropsychology
2008	National Research Award, Alzheimer's Association MA/NH Chapter

LICENSES AND CERTIFICATION:

1990-1994	Licensed Psychologist, North Carolina License # 1560
1992-Present	Registrant, National Register of Health Service Providers in Psychology
1993-Present	Licensed Psychologist, Rhode Island # 491
1997-Present	Licensed Psychologist HSP, Massachusetts # 7238

DEPARTMENTAL AND UNIVERSITY COMMITTEES:

1994-1995	Leadership Committee, Department of Psychiatry, Rhode Island Hospital
1994-1996	Committee for the Protection of the Rights of Human Subjects (IRB), Rhode Island Hospital
1994-1997	Research Committee, Department of Psychiatry and Human Behavior, Brown Medical School, RI
1995-1996	IRB Executive Committee Member, Rhode Island Hospital
1995-2003	Brown University Geriatric Neuropsychiatry Research and Treatment Program, Brown Medical School, RI
1998-2000	Continuing Medical Education Subcommittee, Department of Psychiatry, Rhode Island Hospital
1999-2002	Library Committee, Lifespan (Rhode Island Hospital and Miriam Hospital)
2001-2002	Training Committee, Brown University Clinical Psychology Training Consortium, Brown Medical School, RI
2004-Present	Executive Committee, Alzheimer's Disease Center, Boston University School of Medicine

2006-2012	Executive Committee, Alzheimer's Disease Advisory (Philanthropic) Board, Boston University School of Medicine
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TEACHING EXPERIENCE AND RESPONSIBILITIES:

1990-1993	Member, Clinical Psychology Training Program, UNC School of Medicine
1990-1993	Regular Lecturer for Internship Seminar Series, UNC School of Medicine
1990-1993	Mentor and Supervisor, Neuropsychology Clinical Post-doctoral Fellows and Pre-doctoral Interns, Dept. of Psychiatry, UNC School of Medicine
1990-1993	Mentor for Psychiatry Research Fellows, Research Fellowship Training Program, UNC School of Medicine
1990-1993	Member, Training Faculty Institutional National Research Service Award Fellowship Training Program; Brain and Development Research Center, UNC School of Medicine
1990-1993	Co-director, Neuropsychiatry Seminar Series, UNC School of Medicine
1990-1993	Regular lecturer, Consult/Liaison Seminar Series, UNC Psychiatry Residency Training Program, UNC School of Medicine
1990-1993	Co-director, "Brain-Behavior Relationships", 3 rd year medical school course; UNC School of Medicine
1990-1993	Regular Lecturer, 1st year Neurobiology Course, UNC School of Medicine
1990-1993	Regular Lecturer, "Adult Language Disorders" Course, Division of Speech and Hearing Sciences; UNC School of Medicine
1990-1993	Regular Lecturer, Graduate Neuropsychology Course, UNC
1990-1993	Regular Lecturer, Undergraduate Neuropsychology Seminar, UNC
1993	Non-faculty member of Ph.D. Dissertation Committees; Suffolk University, North Carolina State University, University of Alabama, University of New South Wales, Australia
1993-2003	Member, Neuropsychology Training Faculty; mentored clinical and research neuropsychology fellows and interns; Brown University
1993-2003	Supervised research placements for neuropsychology pre-doctoral interns; Brown University
1993-2003	Regular lecturer for Neuropsychology Seminar Series, Brown Medical School
1993-2003	Regular lecturer for Neuropsychology Rounds, Brown Medical School
1993-2003	Training Faculty, Neuropsychiatry/Behavioral Neurology Fellowship, Depts. Of Psychiatry & Human Behavior and, Department of Clinical Neurosciences, Brown Medical School
1993-2003	Regular lectures for Post-doctoral Fellow Lecture Series; Clinical Psychology Training Consortium, Brown Medical School
1993-2003	Lecturer for Psychiatry Residency Training Program for PGY 1, 2, 3 and 4 Lecture Series, Brown Medical School
1993-2003	Lecturer for First Year Medical Students Medical Interviewing Seminar, Brown Medical School
1993-2003	Mentor for Undergraduate Independent Study Courses, Departments of Neuroscience, Psychology, and others, Brown University
1993-2004	Supervised Practicum Training Site for Clinical Psychology Graduate Students, Undergraduate Psychology Internship Placement; URI
1994-Present	Annual lecturer for Basic Neurosciences Course, Behavioral Neurosciences Program, BUSM
1999-2007	Clinical Practicum Supervisor; Suffolk University Clinical Psychology Program

2001–2002	Coordinator, Internship Training Program Neuropsychology Track, Brown University Clinical Psychology Training Consortium
2001-2002	Training Committee Member; Brown University Clinical Psychology Training Consortium
2003	Core Faculty Member, Brown University T32 Dementia Research Training Program
2004-Present	Annual lecturer for Human Neuropsychology Seminar, Behavioral Neurosciences Program, BUSM
2004-Present	Lecturer for Neurology Residency Training Program Lecture Series
2005-2007	Advisor (for 40 graduate students), BUSM Graduate Medical Sciences Masters Program
2005-Present	Director, Post-Doctoral Neuropsychology Training Program, Alzheimer's Disease Center, BUSM
2005-Present	Director and Lecturer for Neuropsychology and Dementia Seminar Series, Geriatric Medicine, Dentistry & Psychiatry Fellowship Program
2005-Present	Consulting Neuropsychologist and Research Mentor, APA Accredited Internship and Fellowship Clinical Neuropsychology Training Program; Bedford (MA) Veterans Affairs Medical Center
2006-2008	Course Co-Director, Neuropsychological Assessment, Behavioral Neurosciences Program, BUSM
2007-2008	Lecturer for Biology of Disease (Neurology) Course, BUSM Preclinical Medical School Course
2010-Present	CME Annual Course Co-Director, Brain Trauma and the Athlete, BUSM
2011-Present	Core Faculty Member, Alzheimer's Disease Translational Research Training Program (National Institute on Aging T32), BUSM
2012-Present	CME Course Co-Director, Chronic Traumatic Encephalopathy, co-sponsored by BUSM and the Cleveland Clinic Lou Ruvo Center for Brain Health; Las Vegas, September 30-October 1, 2012

MAJOR MENTORING ACTIVITIES:Undergraduate Honors Theses Supervised

- 1991 Wendy Cox, "Effects of Physostigmine on Mood and Sustained Attention," Psychology Department, University of North Carolina
- 1992 Boykin Robinson, "Self-Report of Emotional and Cognitive Complaints in Individuals with Graves' Disease: A Survey Study," Psychology Department, University of North Carolina
- 1996 Mara Lowenstein, "Neuropsychological Functioning in Alzheimer's Disease and Vascular Dementia: A Qualitative Assessment of the Rey-Osterrieth Complex Figure," Psychology Department, Brown University
- 1997 Yamini Subramanian, "The Thyroid Axis and Seizure Threshold: Examining a Mechanism of Thyroid Hormone Augmentation of ECT," Neuroscience Department, Brown University
- 2002 Anna Podolanczuk, "Thyroid Hormone Levels in Post-Mortem Alzheimer's and Control Brains," Neuroscience Department, Brown University

Master's Theses Supervised

- 1998 Jennifer Latham, "The Visual Analog Mood Scales for Adolescents : A Preliminary Examination of Reliability and Validity," Psychology Department, University of Rhode Island
- 2000 Jessica Somerville, "A Comparison of Administration Procedures for the Rey-Osterrieth Complex Figure: Flow-Charts Vs. Pen-Switching," Psychology Department, University of Rhode Island
- 2000 Susan L. Legendre, "The Influence of Cognitive Reserve on Memory After Electroconvulsive Therapy," Psychology Department, University of Rhode Island

- 2005 Veronica Santini, "Thyroid-Neurobehavioral Relationships in the Elderly," Division of Graduate Medical Sciences, Boston University School of Medicine
- 2006 Daniel Daneshvar, "Association between Smoking, APOE, and Risk for Mild Cognitive Impairment and Alzheimer's Disease," Division of Graduate Medical Sciences, Boston University School of Medicine
- 2006 Laura Ridgely, "The Public Health Risk of Unsafe Elderly Drivers and Drivers with Dementia: Current Problems and Steps to be Taken," Division of Graduate Medical Sciences, Boston University School of Medicine
- 2007 David Essaff, "Executive Dysfunction in Early Alzheimer's Disease (AD) and Mild Cognitive Impairment: A Potential Cognitive Marker for Preclinical AD," Division of Graduate Medical Sciences, Boston University School of Medicine
- 2007 Meghan Lembeck, "Racial Disparities and Mild Cognitive Impairment Diagnosis: The Effects of Literacy Correction on Neuropsychological Test Scores," Division of Graduate Medical Sciences, Boston University School of Medicine
- 2008 Jessica A. Riggs, "Current Approaches to Alzheimer's Disease Treatment: A Focus on Passive Immunotherapy," Division of Graduate Medical Sciences, Boston University School of Medicine
- 2009 Vlada Doktor, "Clinical utility of Self and Informant's Complaint in Mild Cognitive Impairment and the Rate of Progression to Alzheimer's Disease," Division of Graduate Medical Sciences, Boston University School of Medicine
- 2011 John Picano, "Defining Concussions: A Literary and Empirical Analysis of Sports-Related Concussion."
- 2013 Alexandra Bourlas, "The Effects of Level and Duration of Play on Cognition, Mood and Behavior Among Former Football Players."

Doctoral Dissertations Supervised

- 1991 Susan L. Silva, "The Effects of Physostigmine on Cognition, Mood, and Behavior," Department of Psychology, North Carolina State University
- 1993 Mark L. Prohaska, "Thyroid, Lithium, and Cognition: The Use of Thyroid Hormone Augmentation in the Reduction of Cognitive Side Effects Associated with Lithium Maintenance," Psychology Department, University of Alabama
- 1999 Debbie J. Javorsky, "A Validation Study of the Boston Qualitative Scoring System (BQSS) for the Rey-Osterrieth Complex Figure," Psychology Department, University of Rhode Island
- 2003 Susan L. Legendre, "The Influence of Cognitive Reserve on Neuropsychological Functioning After Coronary-Artery Bypass Grafting (CABG)," Psychology Department, University of Rhode Island
- 2004 Jessica Somerville Ruffolo, "Visuoconstructional Impairment: What Are We Assessing and How Are We Assessing It?," Psychology Department, University of Rhode Island

Current PhD and MD/PhD Students

Daniel Daneshvar
Julie Stamm (Mentor for NIH F31 Grant 1F31NS081957; 2013-Present)
Philip Montenigro

Post-Doctoral Fellows Trained

1991-1993	Susan Silva, Ph.D., now Research Associate Professor at Duke University
1992-1993	Mareah Steketee, Ph.D., now Adjunct Associate Professor at UNC-Chapel Hill
1993-1995	Mark Prohaska, Ph.D., now Director, Neuropsychology Clinic, Alabama
1994-1996	James Arruda, Ph.D., now Associate Professor at University of West Florida
1994-1996	Garrie Thompson, Ph.D., now Clinical Neuropsychologist, Florida
1996-1998	Geoffrey Tremont, Ph.D., now Associate Professor at Brown University
1998-2000	Holly Westervelt, Ph.D., now Clinical Assistant Professor at Brown University
1998-2000	Debbie Javorsky, Ph.D., now Clinical Neuropsychologist, New Hampshire
2000-2001	Michael Ropacki, Ph.D., now Medical Director, Global Medical Affairs, Janssen Alzheimer Immunotherapy
2000-2002	Caitlin Macaulay, Ph.D., now Clinical Neuropsychologist at Lahey Clinic, Massachusetts
2001-2004	Jennifer Duncan Davis, Ph.D., now Assistant Professor at Brown University
2002-2003	Richard Temple, Ph.D., now Vice President of Clinical Operations at Core Health Care
2003-2004	Laura Brown, Ph.D., now Clinical Neuropsychologist, Rhode Island
2003-2004	Mary Beth Spitznagel, Ph.D., now Assistant Professor at Kent State University
2004-2005	Angela Jefferson, Ph.D., now Associate Professor at Vanderbilt University
2005-2007	Lee Ashendorf, Ph.D., now Clinical Neuropsychologist at Bedford VAMC
2007-2009	Brandon Gavett, Ph.D., now Assistant Professor at Univ. of Colorado, Colorado Springs
2010-2011	Katherine Gifford, Ph.D., now Fellow at Vanderbilt University
2012-2013	Daniel Seichepine, Ph.D.
2012-Present	Elizabeth Vassey, Ph.D.
2013-Present	Todd Solomon, Ph.D.

MAJOR ADMINISTRATIVE RESPONSIBILITIES:

1991-1993	Director, Neurobehavioral Assessment Core, NIMH-funded Mental Health Clinical Research Center, UNC School of Medicine
1992-1993	Acting Director, Data Management/Biostatistics Core, NIMH-funded Mental Health Clinical Research Center, UNC School of Medicine
1992-1993	Associate Center Director, NIMH-funded Mental Health Clinical Research Center, UNC School of Medicine
1995-1996	Vice Chair, Committee for the Protection of the Rights of Human Subjects (IRB), Rhode Island Hospital
2001-2002	Coordinator of Neuropsychology Track, Internship Training Program, Brown Clinical Psychology Training Consortium, Brown Medical School
2004-Present	Director of Neuropsychology, Alzheimer's Disease Clinical and Research Program, Boston University School of Medicine (BUSM)
2004-2008	Associate Director, Alzheimer's Disease Center (NIA-Funded) Clinical Core, BUSM
2004-2006	Associate Director, Alzheimer's Disease Clinical and Research Program, BUSM
2006-2010	Co-Director, Alzheimer's Disease Clinical and Research Program, BUMC
2008-2012	Co-Director, Center for the Study of Traumatic Encephalopathy, BUSM
2009-2010	Acting Director, Alzheimer's Disease Clinical and Research Program, BUMC
2009	Acting Director, Alzheimer's Disease Center (NIA-Funded) Clinical Core, BUSM
2010-Present	Director, Alzheimer's Disease Center (NIA-Funded) Clinical Core, BUSM
2011-2012	Director, Alzheimer's Disease Clinical and Research Program, BUMC
2011-2012	Co-Chair, Global Advisory Committee, International Registry Of Alzheimer's Disease patientS (INROADS), Janssen Alzheimer Immunotherapy
2011-Present	Site Director (BU) and Steering Committee Member, Alzheimer's Disease Cooperative Study (NIA-Funded)

OTHER PROFESSIONAL ACTIVITIES:**PROFESSIONAL SOCIETIES: MEMBERSHIPS, OFFICES, AND COMMITTEE ASSIGNMENTS**

International Neuropsychological Society (Member, 1987-Present)
 Member, Scientific Program Committee, 1997-1999
 Meeting Development Coordinator, 1999-2001

American Psychological Association Division 40, Clinical Neuropsychology (Member, 1988-Present)
 Member, Scientific Advisory Committee, 1995-1997

American Psychological Association Division 12, Clinical Psychology (Member, 1988-Present)

National Academy of Neuropsychology (Member, 1990-Present)
 Fellow, Appointed 2001

American Neuropsychiatric Association (Member, 1995-Present)
 Fellow, Appointed 2001
 Member, Scientific Program Committee, 1995-1999
 Co-Director, Annual Meetings, 1997-1999
 Member, Awards Committee, 2006-Present

Massachusetts Neuropsychological Society (Member, 2007-Present)

International Society to Advance Alzheimer Research and Treatment (Member, 2008-Present)

EDITORIAL BOARDS:

1998-Present	Associate Editor, <i>Journal of Neuropsychiatry and Clinical Neurosciences</i>
2001-2003	Consulting Editor, <i>Assessment</i>
2008-Present	Editorial Board Member, <i>Archives of Clinical Neuropsychology</i>
2010-Present	Review Editor, <i>Frontiers in Neurotrauma</i>
2011-Present	Review Editor, <i>Frontiers in Sports Neurology</i>
2012-Present	Series Editor, Traumatic Brain Injury Series, <i>Alzheimer's Research and Therapy</i>

JOURNAL REVIEWER

Alzheimer's Disease and Associated Disorders
Archives of Neurology
Brain and Cognition
Cognitive and Behavioral Neurology
International Journal of Geriatric Psychiatry
International Review of Psychiatry
Journal of Clinical and Experimental Neuropsychology
Journal of the International Neuropsychological Society
Journal of the Neurological Sciences
Journal of Nutrition, Health and Aging
Neurology
Neuropsychology
PLOS ONE
The Clinical Neuropsychologist

MAJOR COMMITTEE ASSIGNMENTS:**Federal Government**

- 1998 - 1999 Independent Neuropsychological Review Committee V.A. Cooperative Study #029, "Evaluation of a Computer-Assisted Neuropsychological Screening Battery", Department of Veterans Affairs
- 2012 – Present Member, Advisory Board, DoD ADNI (Effects of traumatic brain injury and post traumatic stress disorder on Alzheimer's disease in Veterans using ADNI; PI: MW Weiner)

Private/Foundation

- 1993-Present Member, Medical Advisory Board, National Graves' Disease Foundation
- 2007-Present Member, Medical Advisory Board, Sports Legacy Institute
- 2007-Present Member, Medical & Scientific Advisory Committee, Massachusetts/New Hampshire Chapter, Alzheimer's Association
- 2010-Present Member, Mackey-White Traumatic Brain Injury Committee, National Football League Players Association; Co-Chair of Subcommittee on Former Player Research

Study Sections*National Institutes of Health*

- 1993 Ad hoc Reviewer, Mental Health AIDS and Immunology Review Committee: Psychobiological, Biological, and Neuroscience Subcommittee
- 1995 Ad hoc Reviewer, Mental Health Small Business Research Review
- 1995-1996 Reviewers Reserve (NRR; Study Sections) Member
- 1996-1998 Mental Health Small Business Research Review Committee Member
- 1999 Ad hoc Reviewer, Small Business Research Review Committee
- 2000 Ad hoc Reviewer, Special Emphasis Panel – ZMH1-CRB-B01
- 2013 Ad hoc Reviewer, Special Emphasis Panel - ZRG1 BBBP-D02

Other National Review Committees

- 1998-Present Initial Review Board of the Medical and Scientific Advisory Council, Alzheimer's Association
- 2013 Reviewer, US Army Medical Research and Materiel Command (USAMRMC)

International

- 2013 External Advisor, Wellcome Trust Strategic Award Committee (SAC)

CONSULTANT ACTIVITIES:

- 1991-1992 Cato Research, Ltd. (Clinical Trials Design and Implementation) Durham, NC
- 1995-2003 "HIV: Neuropsychiatric and Psychoimmune Relationships" (Dwight Evans, PI; R01 Grant), Department of Psychiatry, University of Pennsylvania
- 2004-2006 "A Telephone Intervention for Dementia Caregivers" (Geoffrey Tremont, PI; R21 Grant), Rhode Island Hospital/Brown Medical School
- 2004-2006 "A Longitudinal Study of Hazardous Drivers with Dementia" (Brian Ott, PI; R01 Grant), Memorial Hospital of Rhode Island/Brown Medical School
- 2007-2009 Outcome Science (for Forest Laboratories), Cambridge, MA
- 2009 Elan Pharmaceuticals, San Francisco, CA
- 2011 Neuronix, Yokneam, Israel
- 2012 Lilly (*Expert Advisor*), Indianapolis, IN

2011-2012	Janssen Alzheimer Immunotherapy, San Francisco, CA
2013-Present	Athena Diagnostics (Quest), Worcester, MA

PENDING OTHER SUPPORT:

2014-2019	NIH R01; PI: R.A. Stern (MPI: M. Shenton), Tau PET Imaging as a Biomarker for Chronic Traumatic Encephalopathy, Total Costs: \$4,201,196
2013-2018	NIH R01AG046222-01; Co-PI: R.A. Stern (Co-PI: W. Qiu), Pilot Clinical Trial with Pramlintide on Alzheimer's disease, Total Costs: \$3,114,816.
2013-2018	Alzheimer's Disease Cooperative Study (ADCS), Site PI: Stern , Anti-Amyloid Treatment in Asymptomatic Alzheimer's Disease (A4 Study), Total Costs: Under negotiation.
2014-2018	ADCS-Toyama Chemical Partnership; Site PI: Stern , Toyama Chemical in Alzheimer's Disease (TCAD), Total Costs: Under negotiation.
2014-2015	Avid Radiopharmaceuticals; Site PI: Stern , 18F-AV-1451-A05: An open label, multicenter study, evaluating the safety and imaging characteristics of 18F-AV-1451 in cognitively healthy volunteers, subjects with Mild Cognitive Impairment, and subjects with Alzheimer's disease, Total Costs: Under negotiation.
2014	Avid Radiopharmaceuticals; PI: Stern , Tau and Amyloid Imaging in Those at Risk for Chronic Traumatic Encephalopathy, Total Costs: Under negotiation.
2014-2015	NFL-GE Challenge Grant, PI: McClean (Co-I: Stern), Challenge Predicting risk and susceptibility of developing long-term, Total Costs: \$100,000. In peer review.
2014	BUSPH Pilot Project Program, PI: McClean (Co-I: Stern), Total Costs: \$20,000. In peer review.

CURRENT OTHER SUPPORT:

2013-2016	DoD W81XWH-13-2-0064; Traumatic Brain Injury Research Award; Co-PI: R.A. Stern (Co-PI: M. Shenton), Tau Imaging of Chronic Traumatic Encephalopathy, Total Costs: \$992,727
2013-2015	Eisai, Inc., PI: R.A. Stern, A Placebo-controlled, double-blind, parallel-group, Bayesian Adaptive Randomization Design and Dose Regimen-finding study to evaluate safety, tolerability and efficacy of BAN2401 in subjects with early Alzheimer's disease, Total Costs: \$391,342.
2013-2017	U01-NS086659; PI: McKee, CTE and Posttraumatic Neurodegeneration: Neuropathology and Ex Vivo Imaging, Total Costs: \$6,000,000
2011-2014	R01NS078337-01A1, PI: R.A. Stern, Chronic Traumatic Encephalopathy: Clinical Presentation and Biomarkers, Total Costs: \$ 2,035,330.
2011-2016	P30-AG13846, PI: N. Kowall; Clinical Core Director: R.A. Stern; Boston University Alzheimer's Disease Core Center; Total Costs: \$5,986,877.
2010-2015	D01 HP08796, PI: S. Chao; Neuropsychology Director: R.A. Stern; Geriatric Medicine, Dentistry and Psychiatry Fellowship at Boston University; Total Direct Costs: \$1,044,630
2009-2014	R01CA129769, PI: R.A. Stern (MPI: Mandelblatt, Ahles), Older Breast Cancer Patients: Risk for Cognitive Decline, Total Costs: \$ 3,186,605

2008-2014 R01MH080295, PI: R.A. Stern (MPI: R. Joffe), Subclinical Hypothyroidism: Mood,
Cognition and the Effect of L-Thyroxine Treatment, Total Costs: \$ 2,229,240

PAST OTHER SUPPORT

2009-2013	Medivation, Inc. Protocol No. DIM18EXT, Site PI: R.A. Stern, Concert Plus: An Open-Label Extension of the Concert Protocol (DIM18) Evaluating Dimebon (Latrepirdine) in Patients with Alzheimer's Disease, Total Direct Costs: \$30,768
2009-2013	Wyeth/Pfizer Pharmaceuticals, Site PI: R.A. Stern, A Phase 3, Multicenter, Randomized, Double-Blind, Placebo-Controlled, Parallel Group, Efficacy and Safety Trial of Bapineuzumab (AAB-001, ELN115727) in Patients with Mild to Moderate Alzheimer's Disease who are Apolipoprotein E 4 Carriers (Protocol 3133K1-3001-US), Total Direct Costs: \$265,380
2008-2012	Elan Pharmaceuticals (now Janssen Alzheimer's Immunotherapy), Site PI: R.A. Stern, A Phase 3, Multicenter, Randomized, Double-Blind, Placebo-Controlled, Parallel Group, Efficacy and Safety Trial of Bapineuzumab (AAB-001, ELN115727) in Patients with Mild to Moderate Alzheimer's Disease who are Apolipoprotein E 4 Non-Carriers (Protocol ELN115727-301) and Carriers (Protocol ELN115727-302), Total Direct Costs: \$500,000
2007-2012	U01 AG10483, ADCS Contract (CFDA #93.866), Site PI: R.A. Stern, Multi-Center Trial to Evaluate Home-Based Assessment Methods for Alzheimer's Disease Prevention Research in People Over 75 Years Old, Total Direct Costs: \$117,750
2009-2011	5U01AG015477-07 ARRA. PI: J. Breitner; Site Director: R.A. Stern, Prevention of Alzheimer's Disease and Cognitive Decline, Total Direct Costs (Boston Site): \$145,432
2009-2011	National Operating Committee on Standards for Athletic Equipment Investigator Initiated Grant, PI: A.C. McKee & R.A. Stern, Neuropathological and Clinical Consequences of Repetitive Concussion in Athletes; Total Direct Costs: \$249,992
2008-2011	IIRG-08-89720 (Alzheimer's Association), PI: R.A. Stern, Assessment of Driving Safety in Aging, MCI and Dementia, Total Direct Costs: \$240,000
2008-2011	Alzheimer's Association Subcontract, PI: G. Feke; Site PI: R.A. Stern, Objective Biomarkers for Alzheimer's Disease in the Retina, Total Costs: \$81,000 Subcontract
2009-2010	P30-AG13846 Supplement to P30 Center Grant, PI: R.A. Stern & A.C. McKee (N. Kowell, P30 PI); Development of Pathology Diagnostic Criteria for Chronic Traumatic Encephalopathy, Total Direct Costs: \$83,287
2008-2009	P30-AG13846 Supplement to P30 Center Grant, PI: R.A. Stern & A.C. McKee (N. Kowell, P30 PI); Neuropathologic Examination of Traumatic Encephalopathy in Athletes with Histories of Repetitive Concussion, Total Direct Costs: \$100,000
2004-2009	U01 AG023755, PI: T. Perls, Exceptional Survival and Longevity in New England, Total Direct Costs: \$2,073,781
2006-2009	R01 HG/AG02213, PI: R.C. Green, Risk Evaluation and Education for Alzheimer's Disease (REVEAL III), Total Direct Costs: \$1,992,415
2000-2007	U01 AG15477, PI: J. Breitner, The ADAPT Study: Alzheimer's Disease Anti-inflammatory Prevention Trial, Total Direct Costs to Boston Site: \$561,246
2004-2006	Massachusetts Institute of Technology AgeLab and The Hartford, PI: R.A. Stern; Driving and Dementia Total Direct Costs: \$162,082
2004-2005	Boston University Alzheimer's Disease Core Center Pilot Project Grant, PI: R.A. Stern Triiodothyronine Treatment of Alzheimer's Dementia, Total Direct Costs: \$29,989

2001-2004	R21MH062561, PI: G. Tremont, A Telephone Intervention for Dementia Caregivers, Total Direct Costs: \$375,000
2001-2005	5R01AG016335, PI: B. Ott, A Longitudinal Study of Hazardous Drivers with Dementia, \$103,008, Subcontract
1998-2004	5R01NS037840, PI: Ivan Miller. Title: Efficacy of a Family Telephone Intervention for Stroke, Total Direct Costs: \$1,516,615
2000-2003	Eisai, Inc. and Pfizer, Inc Investigator Initiated Grant, PI: R.A. Stern; Title: Clinical Trial of Donepezil Hydrochloride (Aricept) in Diminishing the Cognitive Impairment Associated with Electroconvulsive Therapy; Total Direct Costs: \$108,854
1999-2003	Alzheimer's Association Individual Research Grant; PI: R.A. Stern; Title: A Double-Blind Study of Donepezil with and without Thyroid Hormone in the Treatment of Alzheimer's Dementia Total Direct Costs; \$163,626
2000-2002	R44 MH58501, PI: T. White. Project PI: R.A. Stern; Title: A Modular Neuropsychological Test Battery (Subcontract with Psychological Assessment Resources, Inc) Total Direct Costs: \$272,487, Subcontract (Project Total Direct: \$1,305,245)
1999-2000	Psychological Assessment Resources, Inc. Contract; PI: R.A. Stern; Title: Development of a Modular Neuropsychological Test Battery; Total Direct Costs: \$48,084
1999-2004	Thyroid Research Advisory Council (TRAC) Individual Grant; PI: Geoffrey Tremont; Title: Cerebral Perfusion and Neuropsychological Functioning in Thyrotoxic Graves' Disease Patients; Total Direct Costs: \$55,139
1997-2000	National Alliance for Research on Schizophrenia and Depression Independent Investigator Award; PI: R.A. Stern; Title: Thyroxine Treatment of the Neurocognitive Side Effects of Lithium; Total Direct Costs: \$92,592
1998	R43 MH58501-01; PI: T. White; A Modular Neuropsychological Test Battery (subcontract) Total Direct Costs: \$23,463, Subcontract
1997-1998	Research Fellowship Training Grant, Brown University Department of Psychiatry and Human Behavior; PI: Geoffrey Tremont and R.A. Stern; Psychiatric and Neuropsychologic Consequences of Graves' Disease; Total Direct Costs: \$15,888
1996-1997	Contract, Milkhaus Laboratory; PI: R.A. Stern; An Open-Label Treatment of 2CVV in the Amelioration of Neuropsychological and Psychiatric Symptoms Associated with Chronic Fatigue Syndrome (CFS); Total Direct Costs: \$10,000
1995-1996	Contract, Milkhaus Laboratory; PI: R. A. Stern; 2CVV in the Amelioration of Neuropsychological and Psychiatric Symptoms in Outpatients with Chronic Fatigue Syndrome: A Phase 1/2, Double-Blind, Placebo-Controlled Study; Total Direct Costs: \$9575
1994-1995	Research Fellowship Training Grant (PI: James Arruda, Ph.D., Fellow); Title: Neurobehavioral Functioning in Women Infected with HIV-1; Total Direct Costs: \$17,500
1992-1997	5R01MH048578-05; PI: R.A. Stern; Combined Thyroid Hormone and Electroconvulsive Therapy; Total Direct Costs: \$471,021
1992-1994	5R01MH043231-02; PI: J.J.Haggerty; Co-PI: R.A. Stern; Neuropsychiatric Aspects of Marginal Hypothyroidism; Total Direct Costs: \$174,413
1992-1997	5P50MH033127; PI: A.J. Prange, Jr.; Neurobehavioral Assessment Core Director: R.A. Stern; Psychoendocrinology: Children and Adults, Total Direct Costs: \$4,641,038 total project; \$256,624 subproject [core] <i>*role in project ended 7/93 due to leaving UNC</i>

1992-1993	UNC University Research Council Pilot Project Award Grant; PI: R. A. Stern; Influence of L-triiodothyronine (T3) on Memory following Repeated Electroconvulsive Shock (ECS) in Rats; Total Direct Costs: \$3000
1992-1993	The Psychological Corporation Contract; PI: R.A. Stern; Validation of the Microcog Computerized Neuropsychological Screening Test in HIV-Infected Gay Men; Total Direct Costs: \$3600
1991-1992	UNC Medical Faculty Research Pilot Project Award Grant; PI: R.A. Stern; Physostigmine as a Psychodiagnostic Tool: The Effects of Physostigmine on Cognition, Mood, and Behavior in Normal Volunteers; Total Direct Costs: \$3000
1990-1992	The Foundation of Hope for Research and Treatment of Mental Illness Pilot Project Award; PI: R.A. Stern; Neuropsychological Correlates of Pregnancy and the Early Puerperium; Total Direct Costs: \$16,000
1990-1992	The North Carolina Foundation for Mental Health Research, Inc. Pilot Project Award; PI: R.A. Stern; Physostigmine as a Psychodiagnostic Tool: The Effects of Physostigmine on Cognition, Mood and Behavior; Total Direct Costs: \$1200
1989-1991	The Foundation of Hope for Research and Treatment of Mental Illness Pilot Project Award; PI: R.A. Stern; Neuropsychological Correlates of Alterations in Thyroid State; Total Direct Costs: \$26,317
1989-1994	R01MH044618; PI: D. Evans; HIV: Neuropsychiatric and Psychoimmune Relationships; Total Direct Costs: \$1,293,290 (subcontract)

INVITED LECTURES AND PRESENTATIONS

(Does not include frequent invited community lay lectures, including lectures for the MA/NH Chapter of the Alzheimer's Association)

May 16, 1989	<i>Mood Disorders and Cerebrovascular Disease.</i> Department of Psychiatry, Rhode Island Hospital, Brown University School of Medicine, Providence, RI,.
Dec. 8, 1989	<i>Mood Disorders following Stroke.</i> Continuing Education Course, Greensboro (NC) Area Health Education Center,
January 4, 1990	<i>Assessment and Diagnosis of Post-Stroke Mood Disorders.</i> Continuing Education Course, Westboro (MA) State Hospital
March 3, 1990	<i>How to Design a Clinical Trial.</i> Third annual meeting of the Southern Association for Research in Psychiatry. Chapel Hill, NC.
May 25, 1990	<i>Assessment and Diagnosis of Post-Stroke Mood Disorders.</i> Whittiker Rehabilitation Center, Bowman-Gray Medical Center, Winston-Salem, NC
Aug 17, 31 1990	<i>Neurobehavioral Syndromes: Assessment and Diagnosis.</i> Continuing Education Workshop, Mountain Area Health Education Center, Asheville, NC
September 22, 1990	<i>Theories and Models of Human Cognition: Learning and Memory.</i> Advanced Workshops in Traumatic Brain Injury Rehabilitation, Peace Rehabilitation Center, Greenville, SC.
October 19, 1990	<i>Neurobehavioral Syndromes.</i> Continuing Education Course, Broughton Hospital, Morganton, NC
December 11, 1990	<i>Neuropsychology of Aging.</i> Continuing Education Workshop, Mountain Area Health Education Center, Asheville, NC

- Feb 24-Mar 1, 1991 *States of Mind*. Series of lectures on brain-behavior relationships to selected educators during week-long seminar/retreat, The North Carolina Center for the Advancement of Teaching, Cullowhee, NC
- March 1, 1991 *How to Design a Clinical Trial*. Psychiatry Grand Rounds, Bowman-Gray School of Medicine, Winston-Salem, NC
- March 14, 1991 *Mood Disorders Following Stroke*. Psychiatry Grand Rounds, University of North Carolina School of Medicine, Chapel Hill, NC
- July 26, 1991 *Normal and Pathological Aging: Neurocognitive Functioning*. Continuing Education Course, Broughton Hospital, Morganton, NC
- September 12, 1991 *Neurobehavioral Functioning in a Non-Confounded Cohort of Asymptomatic HIV Seropositive Gay Men*. National Institute of Mental Health (NIMH) sponsored meeting, Neurobehavioral Findings in AIDS Research, Washington, DC
- April 2, 1992. *Neuropsychiatric Disorders: Post-Stroke Depression and AIDS-Related Neurobehavioral Impairment*. Annual meeting of the North Carolina Speech and Hearing Association, Wilmington, NC,
- September 18, 1992 *Neurobehavioral Syndromes*. Continuing Education Course, Johnston County (NC) Mental Health Center.
- October 13, 1993 *Neurobehavioral Aspects of HIV Infection: Children and Adults*. Child Psychiatry Grand Rounds, Brown University School of Medicine, Providence, RI
- December 14, 1993 *New Directions in Psychoneuroimmunology: Neuropsychiatric Correlates of HIV Infection*. Boston Behavioral Immunology Study Group, Boston, MA
- March 3, 1994 *Neuropsychiatric Aspects of Thyroid Disorders*. Endocrinology Grand Rounds, Rhode Island Hospital, Providence, RI
- March 23, 1994 *Post-Stroke Mood Disorders*. Neurology Grand Rounds, Brown University School of Medicine, Providence, RI
- April 29, 1994 *Behavioral Abnormalities in Dementia*. Gerontology '94: Brain and Behavior, a conference sponsored by the Rhode Island Department of Elderly Affairs, Cranston, RI
- June 3, 1994 *Differential Diagnosis of Psychiatric Disorders in Neurologic Patients: Assessment of Mood*. Applications of Neuropsychological Expertise to Clinical Practice in Psychology. Boston Department of Veterans Affairs Medical Center and Tufts New England Medical Center, Boston, MA
- November 15, 1994 *Brain-Behavior Relationships: Appropriate Use and Benefits of Neuropsychological Evaluation*. Grand Rounds. Department of Medicine, Rhode Island Hospital, Providence, RI
- November 17, 1994 *Neuropsychiatric Aspects of HIV and AIDS*. General Internal Medicine Research Seminar. Rhode Island Hospital, Providence, RI.
- March 5, 1996 *Thyroid Disorders and Psychiatry*. Grand Rounds, St. Luke's Hospital, New Bedford, MA
- March 26, 1996 *Neurobehavioral Aspects of Thyroid Disorders*. Lecture Series, Department of Endocrinology, University of Virginia School of Medicine, Charlottesville, VA
- April 10, 1996 *Neuropsychiatric Aspects of Thyroid Disorders*. Psychiatry Lecture Series, Rhode Island Hospital, Providence, RI

- April 19, 1996 *Neurobehavioral Aspects of Graves' Disease*. Keynote Address, Third Annual Meeting of the New England Thyroid Club, Westborough, MA
- May 7, 1996 *Neuropsychological Evaluation of Executive Functioning*. "Neuropsychiatry for Clinicians" section of the *Psychiatry Update* session of the 149th Annual Meeting of the American Psychiatric Association, New York
- June 19, 1997 *Assessment of Mood State and Depression in Neurodegenerative Disease*. Geriatric Case Conference and Journal Club. Butler Hospital
- November 2, 1997 *The Thyroid Axis in Mood Disorders: Thoughts About Therapy* (Discussant). The 14th Annual George C. Ham Symposium (A Festschrift Celebrating the Career of Arthur J. Prange, Jr.). Chapel Hill, NC
- December 19, 1997 *Neuropsychiatric Manifestations of HIV Infection*. Psychiatry Grand Rounds. Department of Veterans Affairs Medical Center. Providence, RI
- May 5, 1998 *Quantifying the Qualitative Features of Rey-Osterrieth Complex Figure Performance: The Boston Qualitative Scoring System (BQSS)*. Continuing Education Lecture. Massachusetts Neuropsychological Society, Boston, MA
- November 8, 1998 *Assessment of Mood State and Depression in Aphasia*. Aphasia: Assessment, Treatment, and Emotional Issues Symposium. 19th Annual Neurorehabilitation Conference on Traumatic Brain Injury and Stroke. (Sponsored by the Healthsouth Braintree Rehabilitation Hospital.) Cambridge, MA
- April 27, 1999 *Assessment of Mood and Depression in Neurologic Disease*. Spring Lecture Series. Department of Communicative Disorders, University of Rhode Island, Kingston, RI
- June 16, 1999 *The Use of Thyroid Hormone to Diminish the Cognitive Side Effects of Psychiatric Treatment*. Psychiatry Grand Rounds, McMaster University Medical Center, Hamilton, Ontario, Canada
- Nov. 13, 1999 *Cognitive Rehabilitation: A Neuropsychological Perspective*. "Frontiers of Hope;" Annual National Meeting for Patients, Families, and Health Care Professionals; Brain Tumor Society, Providence, RI
- March 1, 2000 *Neurobehavioral Functioning in Thyroid Disease*. Neurology Grand Rounds, Brown University School of Medicine, Rhode Island Hospital, Providence, RI
- June 14, 2000 *Surviving a Brain Tumor: Understanding Changes in Thinking and Memory*. Featured speaker for an international educational teleconference for brain tumor survivors and family members, co-sponsored by the Brain Tumor Society, the American Brain Tumor Association, the National Brain Tumor Foundation, and Cancer Care, Inc.
- December 14, 2000 *The Use of Thyroid Hormone to Diminish the Cognitive Side Effects of ECT and Lithium*. Geriatric Psychiatry Case Conference and Journal Club (CME activity), Butler Hospital, Providence, RI
- April 29, 2002 *The Thyroid-Brain Connection: Neuropsychological and Behavioral Aspects of Thyroid Disorders*. Keynote Speaker, Psi Chi Induction Ceremony, Providence College, Providence, RI
- September 21, 2002 *The Invisible Disability: Living with the Cognitive and Behavioral Changes from a Brain Tumor*. "Living Beyond a Brain Tumor 2002: A brain tumor symposium for patients, families, and healthcare professionals. Brain Tumor Society, Quincy, MA

- December 5, 2002 *Neuropsychology of Thyroid Disease*. Behavioral Neuroscience Seminar Series. Brigham and Women's Hospital, Harvard Medical School, Boston, MA
- June 16, 2003 *The Role of Thyroid Functioning in the Aging Brain and Dementia*. Seminar Series, Alzheimer's Disease Center, Boston University School of Medicine, Boston, MA
- December 12, 2003 *The Neuropsychological Assessment Battery (NAB)*. Continuing Education Workshop, Colorado Neuropsychological Society, Denver, CO
- January 23, 2004 *The Neuropsychological Assessment Battery (NAB)*. Continuing Education Workshop, Georgia Psychological Association, Emerald Pointe, GA,.
- January 24, 2004 *The Neuropsychological Assessment Battery (NAB): Development and Psychometric Properties*. Continuing Education Workshop, 1st Professional Neuropsychology Weekend Conference, Coalition of Clinical Practitioners in Neuropsychology, Las Vegas, NV
- January 24, 2004 *The Neuropsychological Assessment Battery (NAB): Administration, Scoring, and Interpretation*. Continuing Education Workshop, 1st Professional Neuropsychology Weekend Conference, Coalition of Clinical Practitioners in Neuropsychology, Las Vegas, NV
- April 1, 2004 *The Utility of the Neuropsychological Assessment Battery (NAB) in the Evaluation of Adult Neurodevelopment Disabilities*. Continuing Education Workshop, Annual Conference of Contemporary Applications of Psychological Testing, Harvard Medical School, Boston, MA
- October 8, 2004 *The Neuropsychological Assessment Battery (NAB)*. Workshop presented at the annual meeting of the International Test Commission, Williamsburg, VA
- December 8, 2004 *The Role of Thyroid Functioning in the Aging Brain and Dementia*. Psychiatry Grand Rounds, Edith Norse Veterans Administration Medical Center, Bedford, MA
- February 5, 2005 *Neurobehavioral Functioning in Thyroid Disorders*. Continuing Education Seminar presented at the 32nd Annual Conference of the International Neuropsychological Society, Las Vegas, NV
- March 15, 2005 *Thyroid-Brain Relationships in Aging and Dementia*. Neurology Grand Rounds, Boston University School of Medicine, Boston, MA
- March 22, 2005 *Cognitive & Memory Changes in Aging & Dementia*. Mini-Med School, Boston University School of Medicine, Boston, MA
- May 12, 2005 *Alzheimer's Disease Research in 2005: Where are we and Where are we Going?* Keynote Address, 5th Annual Boston Alzheimer's Partnership Legislative Breakfast. Dorchester, MA
- June 7, 2005 *Alzheimer's Disease Research in 2005*. Keynote Address, "Alzheimer's Disease: Finding New Pathways," Berkshire Area Health Education Center Conference, Hancock, MA.
- May 3, 2006 *Research Update*. Alzheimer's Association annual "Map Through the Maze," Marlboro, MA
- June 4, 2006 *Advances in Alzheimer's Disease: Diagnosis and Care of Women*. 14th Annual Congress on Women's Health, Hilton Head, SC
- January 16, 2007 *New Discoveries and Directions in Alzheimer's Disease Research and Care*. A Briefing for the Bipartisan Congressional Task Force on Alzheimer's Disease. The Rayburn House Office Building, Washington, DC,

May 2, 2007 *Research Update*. Alzheimer's Association annual "Map Through the Maze," Marlboro, MA

June 29, 2007 *Driving and Dementia*. Social Work Practice with Older Adults: A Continuing Education and Certificate Training Opportunity, Boston College Graduate School of Social Work, Boston, MA

February 28, 2008 *Medical Advances in Research and Treatment*, Keynote Address for the Dementia/Alzheimer's Disease Training Session, Massachusetts Assisted Living Facilities Association (MassALFA), Waltham, MA.

May 14, 2008 *Driving and Dementia: Balancing Personal Independence and Public Safety*. Alzheimer's Association annual "Map Through the Maze," Marlboro, MA

June 27, 2008 *Elderly Drivers: A Difficult Balance of Personal Independence & Public Safety*. Women's Health and Older Adult Conference, Nurse Practitioner Associates Continuing Education (NPAC), Falmouth, MA

March 6, 2009 *Chronic Traumatic Encephalopathy: Progressive Tauopathy following Repetitive Concussion in Athletes*, Pediatric Neurology Grand Rounds, Boston University School of Medicine

May 13, 2009 *Research Update*. Alzheimer's Association annual "Map Through the Maze," Marlboro, MA

October 2, 2009 *Chronic Traumatic Encephalopathy and the Athlete*. Concussion and the Athlete CME Conference, Foxboro, MA

October 7, 2009 *Alzheimer's Disease Research Update*. Massachusetts Councils on Aging Annual Conference, Sturbridge, MA

November 12, 2009 *Recognizing, Diagnosing, and Treating Alzheimer's Disease*. Pri-Med East CME Conference, Boston, MA

November 13, 2009 *Alzheimer's Disease Research Update 2009: Where are we Now and Where are we Going?* Keynote Address at the 12th Annual Alzheimer's Awareness Conference, Alzheimer's Services of Cape Cod and the Islands, Mashpee, MA

March 17, 2010 *Chronic Traumatic Encephalopathy*. Briefing to the Congressional Brain Injury Task Force, Washington, DC

June 23, 2010 *Chronic Traumatic Encephalopathy and Repetitive Brain Trauma in Athletes*, Institute of Medicine Committee on Nutrition, Trauma and the Brain, Washington, DC

October 1, 2010 *Long-Term Effects of Repetitive Concussive and Subconcussive Brain Trauma: Chronic Traumatic Encephalopathy (CTE)*. 2010 Head Trauma and the Athlete CME Conference, Waltham, MA

October 28, 2010 *The Role of Thyroid Functioning in the Aging Brain*. Psychiatry Grand Rounds, Edith Norse Veterans Administration Medical Center, Bedford, MA

November 6, 2010 *Head Games: Chronic Traumatic Encephalopathy Following Repetitive Brain Trauma in Athletes*. Keynote Address at the 31st Annual Braintree Neurorehabilitation Conference, Cambridge, MA

November 18, 2010 *Alzheimer's Disease 2010: A Time for Hope*, Keynote Address for the Dementia/Alzheimer's Disease Training Session, Massachusetts Assisted Living Facilities Association (MassALFA), Hopkinton, MA.

- February 2, 2011 *Chronic Traumatic Encephalopathy: Long-term Consequences of Repetitive Brain Trauma*. Continuing Education Course at the 39th Annual Meeting of the International Neuropsychological Society, Boston, MA.
- March 19, 2011 *Chronic Traumatic Encephalopathy*, Keynote Speaker, “New Frontiers in Traumatic Brain Injury: Update 2011 Essential Information for the Clinical Neurologist,” sponsored by the Massachusetts Neurologic Association and the Massachusetts Medical Society, Boston, MA.
- March 25, 2011 *Head Games: Chronic Traumatic Encephalopathy and the Long-Term Impact of Repetitive Brain Trauma in Athletes*, Luncheon Keynote Address, American Neuropsychiatric Association, Denver, CO
- April 28, 2011 *Sports Concussions: The Hidden Risks*, Invited Speaker for Brain Trauma Symposium, The Neuroscience Institute at the University of Tennessee Health Science Center, Memphis, TN.
- April 29, 2011 *Head Games: Chronic Traumatic Encephalopathy and the Long-Term Consequences of Repetitive Brain Trauma in Athletes*. Neurology Grand Rounds, University of Tennessee Health Sciences Center.
- May 11, 2011 *Driving and Dementia: A Difficult Balance of Personal Independence and Public Safety*. Alzheimer’s Association annual “Map Through the Maze,” Marlboro, MA.
- August 5, 2011 *Chronic Traumatic Encephalopathy: The Synergy of Science and Journalism in Creating Culture Change*. Invited Lecture at the Annual Meeting of the American Psychological Association, Washington, DC.
- September 24, 2011 *Head Games: Chronic Traumatic Encephalopathy and the Long-Term Consequences of Repetitive Brain Trauma in Athletes*. Keynote Speaker for the Baptist Hospital Annual Brain Injury Symposium, Coconut Grove, FL.
- October 19, 2011 *Head Games: Chronic Traumatic Encephalopathy and the Long Term Effects of Repetitive Brain Trauma in Athletes*. Grand Rounds Speaker, Beth Israel Deaconess Medical Center-Needham, Needham, MA
- October 20, 2011 Panelist, “Alzheimer’s Forum,” WBUR (NPR), Boston, MA
- November 5, 2011 *Alzheimer’s disease: Research Updates on Diagnosis, Treatment and Prevention*. Keynote Speaker, Alzheimer’s Association, Chicopee, MA
- January 19, 2012 *Chronic Traumatic Encephalopathy*. Invited Lecture, Boston Society of Neurology and Psychiatry, Boston, MA
- March 5, 2012 *Head Games: Chronic Traumatic Encephalopathy and the Long-Term Consequences of Repetitive Brain Trauma in Athletes*. Invited Speaker, Boston Surgical Society, Boston, MA
- March 28, 2012 Moderator, Annual Alzheimer’s Association (MA/NH Chapter) Research Day, Lexington, MA
- April 11, 2012 *Alzheimer’s Disease 2012: A Reason for Hope*. Keynote Speaker, Annual Research Program, Alzheimer’s Association, Worcester, MA
- April 17, 2012 *Head Games: Chronic Traumatic Encephalopathy and the Long-Term Consequences of Repetitive Brain Trauma in Athletes*. Grand Rounds Speaker, Good Samaritans Medical Center, Brockton, MA

- April 26, 2012 *Head Games: Chronic Traumatic Encephalopathy and the Long-Term Consequences of Repetitive Brain Trauma in Athletes*. Invited Speaker, CME Series, Vista Health System, Waukegan, IL
- April 28, 2012 *Alzheimer's Disease: Research Updates on Diagnosis, Treatment and Prevention*. Keynote Speaker, Alzheimer's Partnership, Andover, MA
- May 16, 2012 *Driving and Dementia: A Difficult Balance of Personal Independence and Public Safety*. Alzheimer's Association annual "Map Through the Maze," Marlboro, MA.
- May 24, 2012 *Chronic Traumatic Encephalopathy: Long-Term Effects of Repetitive Brain Trauma in Athletes and the Military*. Invited Speaker, Alzheimer's Disease: Update and Research, Treatment, and Care, Annual Conference sponsored by the Shiley-Marcos Alzheimer's Disease Research Center, University of California, San Diego, San Diego, CA
- June 13, 2012 *Head Games: Long-term Consequences of Repetitive Brain Trauma*. Keynote Speaker, Traumatic Brain Injury Conference, Sunnybrook Hospital, Toronto, Canada
- June 15, 2012 *Head Games: Chronic Traumatic Encephalopathy and the Long-Term Consequences of Repetitive Brain Trauma in Athletes*. Keynote Speaker, "Effects of Multiple ABI—Preventing Further Injury" Conference, Brain Injury Association, London, Ontario, Canada
- August 3, 2012 *Chronic Traumatic Encephalopathy*. Plenary Speaker, Annual Meeting of the American Psychological Association, Orlando, FL
- October 1, 2012 *Clinical Presentation of CTE : Combining Clinical and Biomarker Data for Accurate Diagnosis*. Invited Speaker (and Conference Co-Chair), Inaugural Chronic Traumatic Encephalopathy (CTE) Conference, Jointly Sponsored by Boston University and the Lou Ruvo Center for Brain Health, Las Vegas, NV
- October 13, 2012 *Differentiating chronic traumatic encephalopathy from Alzheimer's disease and other neurodegenerative conditions*. Invited Speaker, Fred Kavli Public Symposium, Society for Neuroscience, New Orleans, LA
- October 26, 2012 *Chronic Traumatic Encephalopathy: Clinical Presentation*. Invited Speaker (and Conference Co-Chair), 2012 Brain Trauma and the Athlete Conference, CME Conference Sponsored by Boston University School of Medicine, Waltham, MA
- October 29, 2012 *Understanding the Continuum of MCI due to AD & Dementia due to AD*. Invited Speaker, Aging or Alzheimer's Disease? How to Detect and Treat Memory Loss in the Primary Care Setting, CME Conference by Boston University Alzheimer's Disease Center, Waltham, MA.
- November 10, 2012 *Alzheimer's Disease 2012: Reasons for Hope*. Keynote Speaker, NH Alzheimer's Association Conference: Care to Cure, Concord, NH.
- December 1, 2012. *Head Games: Chronic Traumatic Encephalopathy and the Long-Term Consequences of Repetitive Brain Trauma in Athletes*. Invited Speaker, 59th Annual Meeting of the Massachusetts Chapter of the American College of Surgeons, Boston, MA
- December 5, 2012 *Clinical Presentation of CTE*: Invited Speaker, 1st NIH Workshop on the Neuropathology of Chronic Traumatic Encephalopathy, Bethesda, MD.
- December 11, 2012 *Head Games: Chronic Traumatic Encephalopathy and the Long-Term Consequences of Repetitive Brain Trauma in Athletes*. Invited Speaker, Clinical Neurosciences Grand Rounds, Boston University School of Medicine, Boston, MA

- March 6, 2013 *Clinical Presentation of Chronic Traumatic Encephalopathy*, Invited Speaker, 3rd Traumatic Brain Injury Conference, Arlington, VA
- March 17, 2013 *Efforts toward earlier Alzheimer's Treatment*, Invited Panelist, Health Journalism 2013 (American Health Care Journalists), Boston, MA
- April 17, 2013 *Head Games: Chronic Traumatic Encephalopathy and the Long Term Consequences of Repetitive Brain Trauma in Athletes*. Invited Webinar Speaker, Rose[®] Webinar Series.
- May 4, 2013 *CTE and Late Life Issues*, Invited Speaker, International Sports Concussion Symposium, Minneapolis, MN
- May 10, 2013 BU A Leader in Sports-Related Head Injury: Long Term Consequences, Invited Speaker, Medical Grand Rounds, Boston University School of Medicine, Boston, MA
- May 13, 2013 *Clinical Presentation and Diagnosis of Chronic Traumatic Encephalopathy*, Invited Speaker, World Brain Mapping Conference, Baltimore, MD
- May 31, 2013 *Chronic Traumatic Encephalopathy*, Invited Speaker, "Dementia: A Comprehensive Update" Continuing Medical Education Course, Harvard Medical School, Boston, MA.
- June 3, 2013 *The Future of Contact Sports: Concussions May Be the Tip of the Iceberg*. Invited Panelist and Speaker, The German Center for Research and Innovation and Ludwig-Maximilians-Universität München, New York, NY
- June 10, 2013 *Clinical efficacy – how do we observe a potential treatment effect?* Invited Speaker, Workshop: Prevention of Alzheimer's Disease – What will it take? (New York Academy of Sciences), New York, NY
- June 20, 2013 *CTE: Point/Counterpoint Presentation*, Invited Speaker, 11th Annual American Academy of Clinical Neuropsychology Conference, Chicago, IL
- October 24, 2013 *Concussion and Action Points* Symposium, The Association of Ringside Physicians 2013 Annual Medical Seminar, Las Vegas, NV
- November 12, 2013 *Unmet Needs in Neurodegeneration: Focus on Endpoints*, Keynote Speaker, 2nd Annual Meeting of the Coalition Against Major Diseases, Bethesda, MD
- November 12, 2013 *Chronic Traumatic Encephalopathy: Public Health Consequences of Repetitive Brain Trauma in Sports*, Keynote Speaker, 2nd Annual Research Day, Boston University School of Public Health, Boston, MA
- December 5, 2013 *Head Games: Chronic Traumatic Encephalopathy and the Long-Term Consequences of Repetitive Brain Trauma in Athletes*, Grand Rounds, Department of Neurology, Medical University of South Carolina, Charleston, SC
- January 3, 2014 *Brain Games: Chronic Traumatic Encephalopathy and the Long-Term Consequences of Repetitive Brain Trauma*, Grand Rounds, Department of Medicine, Tufts Medical School, Boston, MA
- January 17, 2014 *Brain Games: Chronic Traumatic Encephalopathy and the Long-Term Consequences of Repetitive Brain Trauma*, Distinguished Lecturer for Grand Rounds, Department of Physical Medicine and Rehabilitation, Harvard Medical School, Spaulding Rehabilitation Hospital, Boston, MA
- January 29, 2014 *Clinical Presentation and Diagnosis of Chronic Traumatic Encephalopathy: What We Think We Know and What We Need to Know Next*, Invited Lecture, C4CT Summit, United Nations, New York, NY

- January 30, 2014 *Brain Games: Chronic Traumatic Encephalopathy and the Long-Term Consequences of Repetitive Brain Trauma*, Visiting Speaker, Mayo Clinic, Scottsdale, AZ
- March 19-23, 2014 *Chronic Traumatic Encephalopathy*, Invited Symposium Organizer and Speaker, 10th World Congress on Brain Injury, San Francisco, CA
- April 16-17, 2014 *Chronic Traumatic Encephalopathy Clinical Presentation and Biomarkers: What We Know and What We Do Not Know*, Invited Speaker, 4rd Traumatic Brain Injury Conference, Washington, DC
- May 30, 2014 *Chronic Traumatic Encephalopathy*, Invited Speaker, “Dementia: A Comprehensive Update” Continuing Medical Education Course, Harvard Medical School, Boston, MA.

MEDIA EXPERIENCE AND APPEARANCES:

- Media Training: Fleishman-Hillard International Communications, New York, February 2009
- Print Media: Interviewed and quoted in national and international newspapers and news magazines, including the New York Times, Washington Post, Boston Globe, LA Times, Time Magazine, USA Today, and others.
- Broadcast Media: Interviews on ABC World News Tonight, CBS Evening News, NBC Nightly News, Good Morning America, Nightline, CNN, Fox News, National Public Radio, ESPN, CTV's Canada AM, ABC Radio Australia, ABC TV Australia, and numerous local affiliate radio and television news interviews.
- Documentaries: Appeared in Feature Length Film Documentary, "I Remember Better When I Paint" (2009), French Connection Films and the Hilgos Foundation.
- Appeared in Feature Length Film Documentary, "Head Games" (2012), Variance Films, Directed by Steven James.
- Appeared in Feature Length Television Documentary, "League of Denial" (2013), *Frontline*, Public Broadcasting System (PBS), Directed by Michael Kirk.

ORIGINAL, PEER REVIEWED ARTICLES:*(Past and present students, fellows, and other trainees italicized)*

1. Elder, J.P., & **Stern, R.A.** (1986). The ABC's of adolescent smoking prevention: An environment and skills model. Health Education Quarterly, *13*, 181-191.
2. Elder, J.P., **Stern, R.A.**, Anderson, M., Hovell, M.F., Molgaard, C.A., & Seidman, R. (1987). Contingency-based strategies for the prevention of alcohol, drugs, and tobacco use: Missing or unwanted components of adolescent health promotion? Education and Treatment of Children, *10*, 30-47.
3. **Stern, R.A.**, Prochaska, J.O., Velicer, W.F., & Elder, J.P. (1987). Stages of adolescent smoking acquisition: Measurement and sample profiles. Addictive Behaviors, *12*, 319-329.
4. Elder, J.P., de Moor, C., Young, R.L., Wildey, M.B., Molgaard, C.A., Golbeck, A.L., Sallis, J.F., & **Stern, R.A.** (1990). Stages of adolescent tobacco-use acquisition. Addictive Behaviors, *15*, 449-454.
5. Simmons, R.B., **Stern, R.A.**, Teekhasaene, C., & Kenyon, K.R. (1990). Elevated intraocular pressure following penetrating keratoplasty. Transactions of the American Ophthalmological Society, *87*, 79-93.
6. Simmons, R.B., Shields, M.B., Blasini, M., Wilkerson, M., & **Stern, R.A.** (1991). A clinical evaluation of transscleral Neodymium:YAG cyclophotocoagulation with a contact lens. American Journal of Ophthalmology, *112*, 671-677.
7. **Stern, R.A.**, & Bachman, D.L. (1991). Depressive symptoms following stroke. American Journal of Psychiatry, *148*, 351-356.
8. **Stern, R.A.**, Nevels, C.T., Shelhorse, M.E., *Prohaska, M.L.*, Mason, G.A., & Prange, A.J., Jr. (1991). Antidepressant and memory effects of combined thyroid hormone treatment and electroconvulsive therapy: Preliminary findings. Biological Psychiatry, *30*, 623-627.
9. Keenan, P., **Stern, R.A.**, Janowsky, D.S., & Pedersen, C.A. (1992). Psychological aspects of premenstrual syndrome I: Cognition and memory. Psychoneuroendocrinology, *17*, 179-187.
10. **Stern, R.A.**, *Singer, N.G.*, *Silva, S.G.*, Rogers, H.J., Perkins, D.O., Hall, C.D., van der Horst, C.M., & Evans, D.L. (1992). Neurobehavioral functioning in a nonconfounded group of asymptomatic HIV seropositive homosexual men. American Journal of Psychiatry, *149*, 1099-1102.
11. **Stern, R.A.**, van der Horst, C.M., Hooper, S.R., Bloodgood, K.M., & High, K.A. (1992). Zidovudine overdose in an asymptomatic HIV seropositive patient with hemophilia. Psychosomatics, *33*, 454-457.
12. Girdler, S.S., Pedersen, C.A., **Stern, R.A.**, & Light, K.C. (1993). The menstrual cycle and premenstrual syndrome: Modifiers of cardiovascular reactivity in women. Health Psychology, *12*, 180-192.
13. Haggerty, J.J. Jr., **Stern, R.A.**, Mason, G.A., Beckwith, J., *Morey, C.E.*, & Prange, A.J. Jr. (1993). Subclinical hypothyroidism: A modifiable risk factor for depression. American Journal of Psychiatry, *150*, 508-510.
14. Pedersen, C.A., **Stern, R.A.**, *Pate, J.*, Senger, M.A., Bowes, W.A., & Mason, G.A. (1993). Thyroid and adrenal measures during late pregnancy and the puerperium in women who have been major depressed or who become dysphoric postpartum. Journal of Affective Disorders, *29*, 201-211.
15. Robertson, K.R., **Stern, R.A.**, Hall, C.D., Perkins, D.O., Wilkins, J.W., *Gortner, D.T.*, Donovan, M.K., Messenheimer, J.A., Whaley, R., & Evans, D.L. (1993). Vitamin B₁₂ deficiency and nervous system disease in HIV infection. Archives of Neurology, *50*, 807-811.
16. **Stern, R.A.**, *Steketee, M.S.*, Durr, A., Prange, A.J. Jr., & Golden, R.N. (1993). Combined use of thyroid hormone and ECT. Convulsive Therapy, *9*, 285-292.

17. Perkins, D.O., **Stern, R.A.**, Golden, R.N., Murphy, C., *Naftalowitz, D.*, & Evans, D.L. (1994). Mood disorders in HIV infection: Prevalence and risk factors in a non-epicenter of the AIDS epidemic. American Journal of Psychiatry, 151, 233-236.
18. **Stern, R.A.** (1994). Neuropsychiatric and psychoneuroimmune aspects of HIV infection and AIDS. Advances, 10 (4), 28-31.
19. **Stern, R.A.**, *Singer, E.A.*, *Duke, L.M.*, *Singer, N.G.*, *Morey, C.E.*, *Daughtrey, E.W.*, & Kaplan, E. (1994). The Boston Qualitative Scoring System for the Rey-Osterrieth Complex Figure: Description and interrater reliability. The Clinical Neuropsychologist, 8, 309-322.
20. Echelman, D.A., **Stern, R.A.**, Shields, S.R., Simmons, R.B., & Shields, M.B. (1995). Variability of contact transscleral neodymium:YAG cyclophotocoagulation. Investigative Ophthalmology & Visual Science, 36, 497-502.
21. Evans, D.L., Leserman, J., Perkins, D.O., **Stern, R.A.**, Murphy, C., Tamul, K., Liao, D., van der Horst, C.M., Hall, C.D., Folds, J.D., Golden, R.N., & Petitto, J.M. (1995). Stress associated reductions of cytotoxic T lymphocytes and natural killer cells in asymptomatic human immunodeficiency virus infection. American Journal of Psychiatry, 152, 543-550.
22. Perkins, D.O., Leserman, J., **Stern, R.A.**, *Baum, S.F.*, Liao, D., Golden, R.N., & Evans, D.L. (1995). Somatic symptoms and HIV-1 infection: Relationship to depressive symptoms and indicators of HIV disease. American Journal of Psychiatry, 152, 1776-1781.
23. *Prohaska, M.L.*, **Stern, R.A.**, *Steketee, M.C.*, & Prange, A.J. Jr. (1995). Lithium, thyroid hormones, and neuropsychological functioning: A review and hypothesis. Depression, 2, 241-251.
24. **Stern, R.A.**, *Whealin, J.M.*, Mason, G.A., Noonan, L.R., *Silva, S.G.*, *Arruda, J.E.*, & Prange, A.J. Jr. (1995). Influence of L-triiodothyronine on memory following repeated electroconvulsive shock in rats: Implications for human electroconvulsive therapy. Biological Psychiatry, 37, 198-201.
25. *Arruda, J.E.*, **Stern, R.A.**, & *Legendre, S.A.* (1996). Assessment of mood state in patients undergoing electroconvulsive therapy: The utility of Visual Analogue Mood Scales developed for cognitively-impaired patients. Convulsive Therapy, 12, 207-212.
26. *Arruda, J.E.*, Weiler, M.D., Valentino, D.S., Willis, W.G., Rossi, J.S., **Stern, R.A.**, Gold, S.G., & Costa, L. (1996). A guide for applying principal components analysis and confirmatory factor analysis to quantitative electroencephalogram data. International Journal of Psychophysiology, 23, 63-81.
27. *Cahn, D.A.*, Marcotte, A.C., **Stern, R.A.**, *Arruda, J.E.*, Akshoomoff, N.A., & *Leshko, I.C.* (1996). The Boston Qualitative Scoring System for the Rey-Osterrieth Complex Figure: A study of children with Attention Deficit Hyperactivity Disorder. The Clinical Neuropsychologist, 10, 397-406.
28. *Prohaska, M.L.* **Stern, R.A.**, Nevels, C.T., Mason, G.A., & Prange, A.J. Jr. (1996). The relationship between thyroid status and neuropsychological performance in psychiatric outpatients maintained on lithium. Neuropsychiatry, Neuropsychology, and Behavioral Neurology, 9, 30-34.
29. **Stern, R.A.**, *Robinson, B.*, *Thorner, A.R.*, *Arruda, J.E.*, *Prohaska, M.L.*, & Prange, A.J. Jr. (1996). A survey study of neuropsychiatric complaints in patients with Graves' disease. Journal of Neuropsychiatry and Clinical Neurosciences, 8, 181-185.
30. **Stern, R.A.**, *Silva, S.G.*, *Chaisson, N.*, & Evans, D.L. (1996). Influence of cognitive reserve on neuropsychological functioning in asymptomatic Human Immunodeficiency Virus-1 infection. Archives of Neurology, 53, 148-153.
31. **Stern, R.A.** (1996). Assessment of mood states in neurodegenerative disease: Methodological and diagnostic recommendations. Seminars in Clinical Neuropsychiatry, 1, 315-324.
32. *Costa, L.*, *Arruda, J.E.*, **Stern, R.A.**, *Somerville, J.A.*, & Valentino, D. (1997). Asymptomatic HIV infected women: A preliminary study of quantitative EEG activity and performance on a continuous performance test. Perceptual and Motor Skills, 85, 1395-1408.
33. Evans, D.L., Leserman, J., Perkins, D.O., **Stern, R.A.**, Murphy, C., Zheng, B., Gettes, D., Longmate, J.A., Silva, S.G., van de Horst, C.M., Hall, C.D., Folds, J.D., Golden, R.N., & Petitto,

- J.M. (1997). Severe life stress as a predictor of early disease progression in HIV infection. American Journal of Psychiatry, 154, 630-634.
34. Nyenhuis, D.L., **Stern, R.A.**, Yamamoto, C., Luchetta, T., & *Arruda, J.E.* (1997). Standardization and validation of the Visual Analog Mood Scales. The Clinical Neuropsychologist, 11, 407-415.
 35. **Stern, R.A.**, *Arruda, J.E.*, Hooper, C.R., Wolfner, G.D., & *Morey, C.E.* (1997). Visual Analogue Mood Scales to measure internal mood state in neurologically impaired patients: Description and initial validity evidence. Aphasiology, 11, 59-71.
 36. **Stern, R.A.**, *Arruda, J.E.*, *Somerville, J.A.*, Cohen, R.A., Boland, R.J., Stein, M.I., & Martin, E.M. (1998). Neurobehavioral functioning in asymptomatic HIV-1 infected women. Journal of the International Neuropsychological Society, 4, 172-178.
 37. *Arruda, J.E.*, **Stern, R.A.**, & *Somerville, J.A.* (1999). Measurement of mood states in stroke patients: Validation of the Visual Analog Mood Scales. Archives of Physical Medicine and Rehabilitation, 80, 676-680.
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ORIGINAL, PEER REVIEWED ARTICLES UNDER REVIEW:

(Past and present students, fellows, and other trainees italicized)

1. *Bourlas, A.P., Stamm, J.M., Baugh, C.M., Daneshvar, D.H., Breaud, A.H., Robbins, C.A., Riley, D.O., Martin, B.M., McClean, M.D., Au, R., Gioia, G., Ozonoff, A., McKee, A.C., Nowinski, C.J., Chaisson, C.E., Cantu, R.C., Tripodis, Y., & Stern, R.A.* (under review). Relationship between playing tackle football prior to age 12 and later-life mood, behavior, and cognition. Journal of the American Medical Association - Neurology.
2. Crary, J.F., Stein, T.D., *Daneshvar, D.H.*, Alvarez, V.E., Santa-Maria, I., **Stern, R.A.**, Illowsky, A., Clark, L., & McKee, A. (under review). The MAPT H1 haplotype accelerates progression of chronic traumatic encephalopathy. Annals of Neurology.
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RESEARCH PUBLICATIONS WITHOUT NAMED AUTHORSHIP

1. Aisen, P.S., Schneider, L.S., Sano, M., Diaz-Arrastia, R., van Dyck, C.H., Weiner, M.F., Bottiglieri, T., Jin, S., Stokes, K.T., Thomas, R.G., Thal, L.J. & **Alzheimer Disease Cooperative Study** (2008). High-dose B vitamin supplementation and cognitive decline in Alzheimer disease: a randomized controlled trial. Journal of the American Medical Association, 300, 1774-1783.

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10. Reitz, C., Jun, G., Naj, A., ...& **Alzheimer Disease Genetics Consortium**. (2013). Variants in the ATP-binding cassette transporter (ABCA7), apolipoprotein E ϵ 4, and the risk of late-onset Alzheimer disease in African Americans. JAMA, 309(14), 1483-92.
11. Reitz C., Mayeux, R., & **Alzheimer's Disease Genetics Consortium**. (2013). TREM2 and neurodegenerative disease. New England Journal of Medicine, 369, 1564-5.
12. Lambert, J.C., Ibrahim-Verbaas, C.A., Harold, D., ...**Alzheimer's Disease Genetic Consortium**,... Schellenberg, G.D., & Amouyel, P. (2013). Meta-analysis of 74,046 individuals identifies 11 new susceptibility loci for Alzheimer's disease. Nature Genetics, epub ahead of print, October 27, 2013.
13. Allen, M., Zou, F., Chai, H.S., ...**Alzheimer's Disease Genetics Consortium**, ... Younkin, S.G., & Ertekin-Taner, N. (in press). Novel late-onset Alzheimer's disease loci variants associate with brain gene expression. Neurology.

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15. Reitz, C., Tosto, G., Vardarajan, B.N., ... & **Alzheimer's Disease Genetics Consortium**. (under review). Independent and epistatic effects of variants in VPS10 sortilin receptors on Alzheimer's disease risk and processing of the amyloid precursor protein (APP). Annals of Neurology.
16. Miyashita, A., Koike, A., Jun, G., ... **The Alzheimer's Disease Genetics Consortium**, ... (in press). SORL1 is genetically associated with late-onset Alzheimer's disease in Japanese, Koreans and Caucasians. GWAS.

CASE REPORTS, REVIEWS, CHAPTERS, EDITORIALS AND OTHER PUBLICATIONS

Proceedings of Meetings & Invited Papers

(Past and present students, fellows, and other trainees italicized)

1. Raymond, P.F., **Stern, R.A.**, Authalet, A.M., & Penny, D. (1987). A comparison of California Verbal Learning Test performance among patients with multiple sclerosis, vascular lesions, and normal controls. Journal of Clinical and Experimental Neuropsychology, *9*, 49.
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12. Haggerty, J.J. Jr., **Stern, R.A.**, Beckwith, J., *Morey, C.E.*, Mason, G., & Prange, A.J. Jr. (1991). A controlled evaluation of psychiatric and neuropsychological function in subclinical hypothyroidism. Biological Psychiatry, 29, 153A.
13. **Stern, R.A.**, & Bachman, D.L. (1991). Depressive Symptom nach cerebrovaskularem insult [Depressive symptoms following stroke]. Exacta Psychiatrica, 5, 15.
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 - NAB Screening Module
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 - The kit was developed collaboratively by BU School of Medicine, MIT AgeLab, The Hartford Financial Services Group the three organizations, based on materials developed for a research study (**PI R. Stern**) of dementia caregivers and driving. Other major contributors include from the MIT AgeLab. The support group kit was the recipient of a *Today's Caregiver* Magazine's "2011 Caregiver Friendly" Award.